

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD ROUTE 28 (DARNESTOWN ROAD) AND SAFEWAY DRIVEWAY/QUINCE ORCHARD HIGH SCHOOL DRIVEWAY IN MONTGOMERY COUNTY. MD ROUTE 28 (DARNESTOWN ROAD) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA, FOUR (4) PHASE, SEMI-TRAFFIC-ACTUATED MODE. THE MD 28 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THE SAFEWAY DRIVEWAY/QUINCE ORCHARD HIGH SCHOOL DRIVEWAY MOVEMENTS WILL OPERATE CONCURRENTLY. AN ALTERNATE PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE WEST LEG OF MD 28. A CONCURRENT PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE NORTH AND SOUTH LEGS OF SAFEWAY DRIVEWAY/QUINCE ORCHARD HIGH SCHOOL DRIVEWAY.

AN EIGHT PHASE, FULLY-ACTUATED, SOLID STATE DIGITAL CONTROLLER WITH TWO (2) FOUR CHANNEL LOOP DETECTOR AMPLIFIERS HOUSED IN A BASE MOUNTED CABINET EXISTS AT THIS LOCATION.

III. INTERCONNECTION

THE EXISTING 50 PAIR VOICE GRADE INTERCONNECT CABLE BETWEEN THE INTERSECTIONS OF MD 28 @ SAFEWAY DRIVEWAY AND MD 28 @ QUINCE ORCHARD ROAD IS TO BE MAINTAINED.

IV. PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT THREE ARE AS FOLLOWS:

MR. CHARLIE WATKINS
DISTRICT ENGINEER
PHONE: (301) 513-7311

MR. AUGUSTINE REBISH
UTILITY ENGINEER
PHONE: (301) 513-7350

MR. MAJID SHAKIB
ASSISTANT DISTRICT
ENGINEER-TRAFFIC
PHONE: (301) 513-7358

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

THE POWER COMPANY REPRESENTATIVE IS
POTOMAC ELECTRIC POWER COMPANY
MR. JIM SLAYTON
PHONE: (202) 872-2000

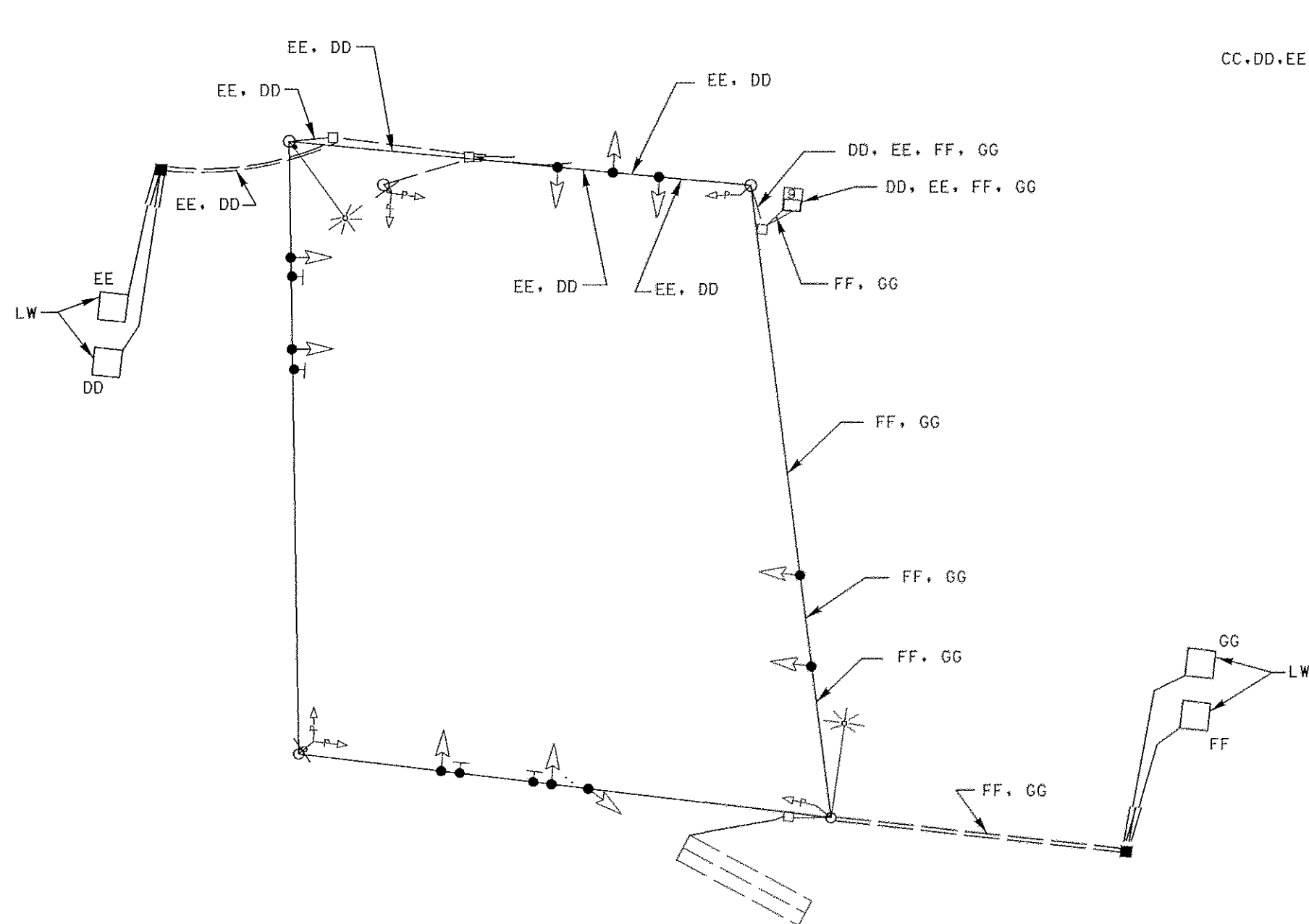
THE CONTACT PERSON FOR
MONTGOMARY COUNTY DPW-T IS:
MR. ROBERT CONZALES
PHONE: (240) 777-8761

EQUIPMENT LIST 'B'

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
500	LF	556	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
200	LF	556	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
2	EA	811	FURNISH AND INSTALL ELECTRICAL HANDHOLE
66	LF	805	FURNISH AND INSTALL 1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
104	LF	805	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
807	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (ALUMINUM SHIELDED)
693	LF	810	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO 14 AWG)
220	LF	815	FURNISH AND INSTALL SAWCUT FOR SIGNAL LOOP DETECTOR
10	EA	814	RELOCATE EXISTING SIGNAL HEADS
4	EA	SP	RELOCATE EXISTING OVERHEAD SIGN

ULTIMATE WIRING DIAGRAM



WIRING KEY

CC-DD-EE-FF-GG - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
LW - LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 2 & 6	G	G	G	G	R	R	R	R	R	R	W	W	W	W	DWDW	DWDW
PED CLEAR	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DWDW	DWDW
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DWDW	DWDW
PHASE 4 & 8	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DWDW	DWDW
4 & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DWDW	DWDW
ALT PHASE 4	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	W	W
PED CLEAR	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW
ALT 4 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DWDW	DWDW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

TSP - 12

REVISION 'A'

KCI
TECHNOLOGIES INC.
ENGINEERS AND PLANNERS
10 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
21030-1888
(410) 316-7800

REVISIONS	APPROVALS
	PROJECT MANAGER, SIGNAL DESIGN DIVISION
	ORIGINALS
	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	ON
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	FILE
	DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
ULTIMATE
MD 28 (DARNESTOWN RD) AND SAFEWAY DRIVEWAY/ QUINCE ORCHARD H.S. DRIVEWAY

DRAWN BY: R.R. ZACHERL	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: STEVE RENZI	S.H.A. NO.	3351A-GI	
SCALE: NONE	COUNTY: MONTGOMERY	T.I.M.S. NO. D107	
DATE: 7-19-93	LOG MILE: 15002815.51		OF